

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS A WELL LOG        ELECTRIC LOGS        FILE X WATER SANDS        LOCATION INSPECTED        SUB REPORT abd       DATE FILED 6-28-84  
LAND FEE & PATENTED        STATE LEASE NO.        PUBLIC LEASE NO. U-29837 INDIAN       DRILLING APPROVED 8-3-84 - OIL (Exception Location)SPUDDED IN       COMPLETED        PUT TO PRODUCING       INITIAL PRODUCTION       GRAVITY A.P.I.       GOR       PRODUCING ZONES       TOTAL DEPTH       WELL ELEVATION       DATE ABANDONED 1-22-86 LA application rescindedFIELD 3/86 WILDCATUNIT       COUNTY GARFIELDWELL NO. CHARGER #3 API #43-017-30123LOCATION 1249' FSL FT. FROM (N) (S) LINE. 2011' FEL FT. FROM (E) (W) LINE SWSE 1 4 - 1 4 SEC 15

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
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33S	2E	15	MID-CONTINENT OIL & MINING
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UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
Box 246  
Escalante, UT 84726

2820  
June 26, 1984



Mr. George Peternel  
BLM Area Manager  
Escalante, UT 84726

Dear George,

We recently had an onsite inspection for Mid-Continent Oil and Gas Charger #3, and Charger #4. The following people attended:

Attendees

Lincoln Lyman  
George Peternel  
Quay Simons  
Paul Carter  
Don Shultz  
Dave Dallison  
Doug Austin  
Ralph Rawlinson  
Bill Sheehan  
Orlyn Terry  
Ed Guynn

Jim Fouts  
John Baz

Representing

Lyman Construction  
BLM  
BLM  
BLM  
Forest Service  
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Mid-Continent Oil & Gas  
BLM Utah State Office -  
Branch of Fluid Minerals  
" " "  
Division of Oil & Gas & Mining  
Utah Dept. of Natural Resources

These onsites were done in conjunction with a strategy meeting for development of the CO<sub>2</sub> field in the Escalante Anticline.

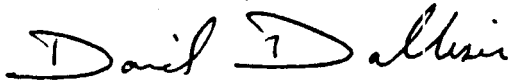
Charger #3:

- (1) All activities on Charger #3 should be coordinated with Allied Forest Products and Escalante District Ranger to avoid conflicts with the Hungry Creek Timber Sale.
- (2) Clearing must be held to a minimum on this well site. Trees marked in blue paint will be removed via Hungry Creek Timber Sale. All trees removed will be designated by Escalante Ranger District personnel.

Charger #4:

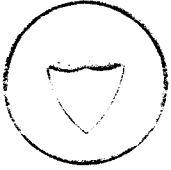
Due to the sensitive nature of this area, recommendations for stipulations will be outlined in the EA to be written by the BLM at a later date. Forest Service input to this EA will be forthcoming as soon as we get clarification of the wilderness issues involved.

Sincerely,

A handwritten signature in cursive script, appearing to read "Doug Austin".

for  
DOUGLAS W. AUSTIN  
District Forest Ranger

cc: S.O.  
Orlyn Terry ✓



**ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES**

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

**RECEIVED**

June 26, 1984

JUN 28 1984

CERTIFIED # 1117983  
RETURN RECEIPT REQUESTED

**DIVISION OF OIL  
GAS & MINING**

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Dear Sir:

Re: #3 Charger  
Filing NTL-6 & APD #9-331-C  
Mid-Continent Oil & Gas  
Reserves, Inc.  
SW SE Section 15, T33S-R2E  
Garfield County, Utah

Enclosed please find three copies of the NTL-6 program and Application for Permit to Drill the above-referenced well location.

Copies have also been sent to Mr. Ed Guynn, Chief of Branch of Fluid Minerals for his approval.

Very truly yours,

*Orlyn Terry*  
Orlyn Terry

OT:cr

cc: Mid-Continent Oil & Gas Reserves, Inc.  
ARCO Exploration Company w/enclosure

Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Mid-Continent Oil &amp; Gas Reserves, Inc.

## 3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

SW SE Sec. 15, T33S-R2E; 1249' FSL, 2011' FEL

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

13 miles north of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

2011' FEL

## 16. NO. OF ACRES IN LEASE

1,920

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

7,000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7851' GR

## 22. APPROX. DATE WORK WILL START\*

August 1, 1984

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" new or used	36# K-55 ST&C	120'	50 sxs, Class H, 3% Cac12
7-7/8"	5-1/2" new or used	15.5% K-55 LT&C	7000'	250 sxs, Class H, 3% Cac12

1. Drill 12-1/4" hole and set 9-5/8" casing to 120' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 7-7/8" hole to 7000'.
3. Run tests if warranted and run 5-1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

RECEIVED

JUN 28 1984

DIVISION OF OIL  
GAS & MINING

## EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The 10-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements of A.P.D.
- "E" & "E1" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G1" Drill Pad Layout, Production Facilities & Cut-Fill Cross Sections
- "H" Drill Rig Layout
- "I" Unusual Environmental Assessment

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

John B. Stalter

TITLE

President

DATE

6/15/84

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY THE STATE

OF UTAH DIVISION OF  
OIL, GAS, AND MINING

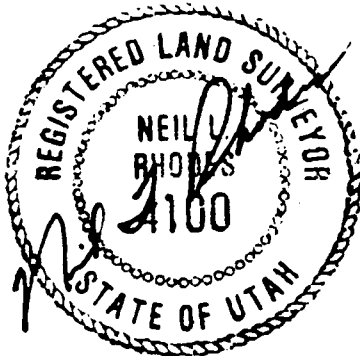
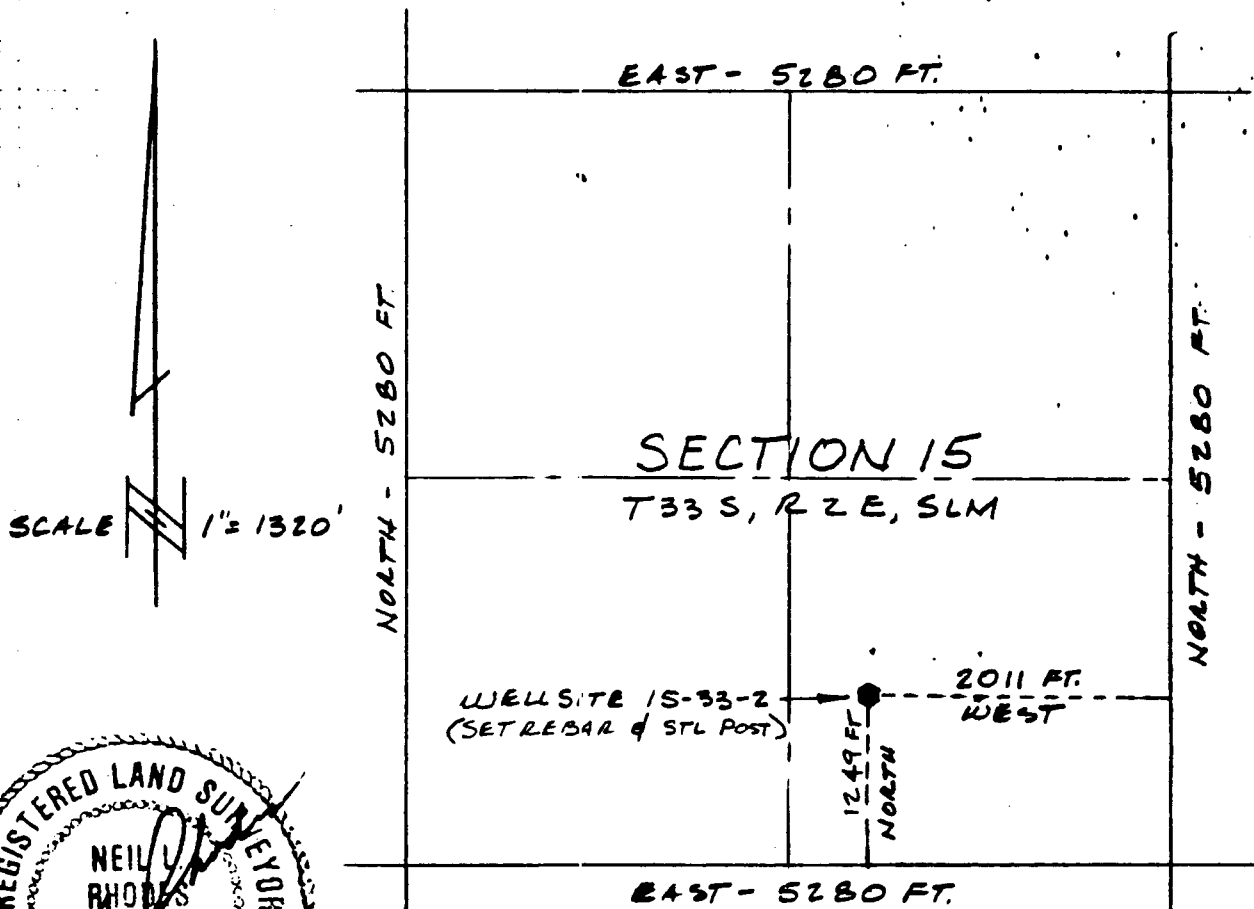
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE: 7/3/84  
BY: John R. Berra

OPERATOR: Mid-Continent Oil Company  
 WELL NUMBER: #3 Charger  
 LOCATION: Section 15, T33S, R2E, SLM  
 COUNTY: Garfield  
 STATE: Utah  
 ELEVATION: Ground = 7851.0



REF marker #1 (rebar) - located S 20°28' E, 267 ft. from the center of well.

REF marker #2 (stake on 6" diameter Pine) - locate due South, 193.42 ft. from the center of well.

Note: This well site falls within an unsurveyed area and the sectional ties shown are based on BLM protraction diagrams as they relate to section 25, T33S, R3E, SLM.

**BULLOCH BROS.**  
**ENGINEERING INC.**  
 CEDAR CITY, UTAH

WELL LOCATION  
 MAP FOR  
 Mid-Continent Oil Company  
 Dallas, Texas

REV'D 10/14/83  
 DATE 9/28/83  
 SCALE 1" = 1320'  
 DRAWN NLR

EXHIBIT "B"  
TEN-POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331 C  
Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Section 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Quaternary Igneous Debris

2. Estimated Tops of Important Geologic Markers

Navajo Sandstone	2170'
Kayanta Sandstone	3490'
Wingate Sandstone	3590'
Chinle	4070'
Shinarump	4540'
Moenkopi	4740'
Timpoweap	6400'
Kaibab	6500'
Toroweap-White Rim	6700'
Total Depth	7000'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Navajo Sandstone	2170'	Water
Kayanta Sandstone	3490'	Water
Wingate Sandstone	3590'	Water
Timpoweap	6400'	Oil or Water
Kaibab	6500'	Oil or Water
Toroweap-White Rim	6700'	Oil or Water

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
12-1/4"	0-120'	120'	9-5/8"	36#, K-55 ST&C	Either
7-7/8"	0-7000'	7000'	5-1/2"	15.5#, K-55 LT&C	Either

Surface Casing: Cement with 50 sacks Class H, 3% CaCl<sub>2</sub>

Production Casing: Cement with 250 sacks Class H, 3% CaCl<sub>2</sub>

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

This well will be drilled with air mist from surface to total depth. Exhaust will be muffled. Other materials will be on site to handle any anticipated downhole problems as well as possible spills of fluid on the surface. If water flow is encountered, the well will be drilled with mud.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSS cc</u>
0-7000'	Gel-chem	9	35-40	N/C

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) A gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.



8. The Testing, Logging and Coring Programs to be Followed

(a) Drill Stem Tests will be determined during drilling.

(b) The logging program will consist of the following:

Induction	Surface to TD
Gamma-Ray Neutron	Surface to TD
Density	Surface to TD

Other logs will be determined at site to best evaluate any shows.

(c) No coring is anticipated.

(d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

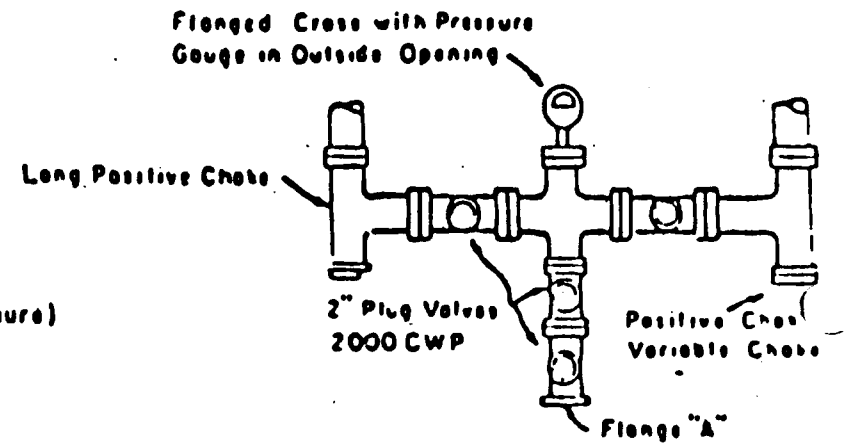
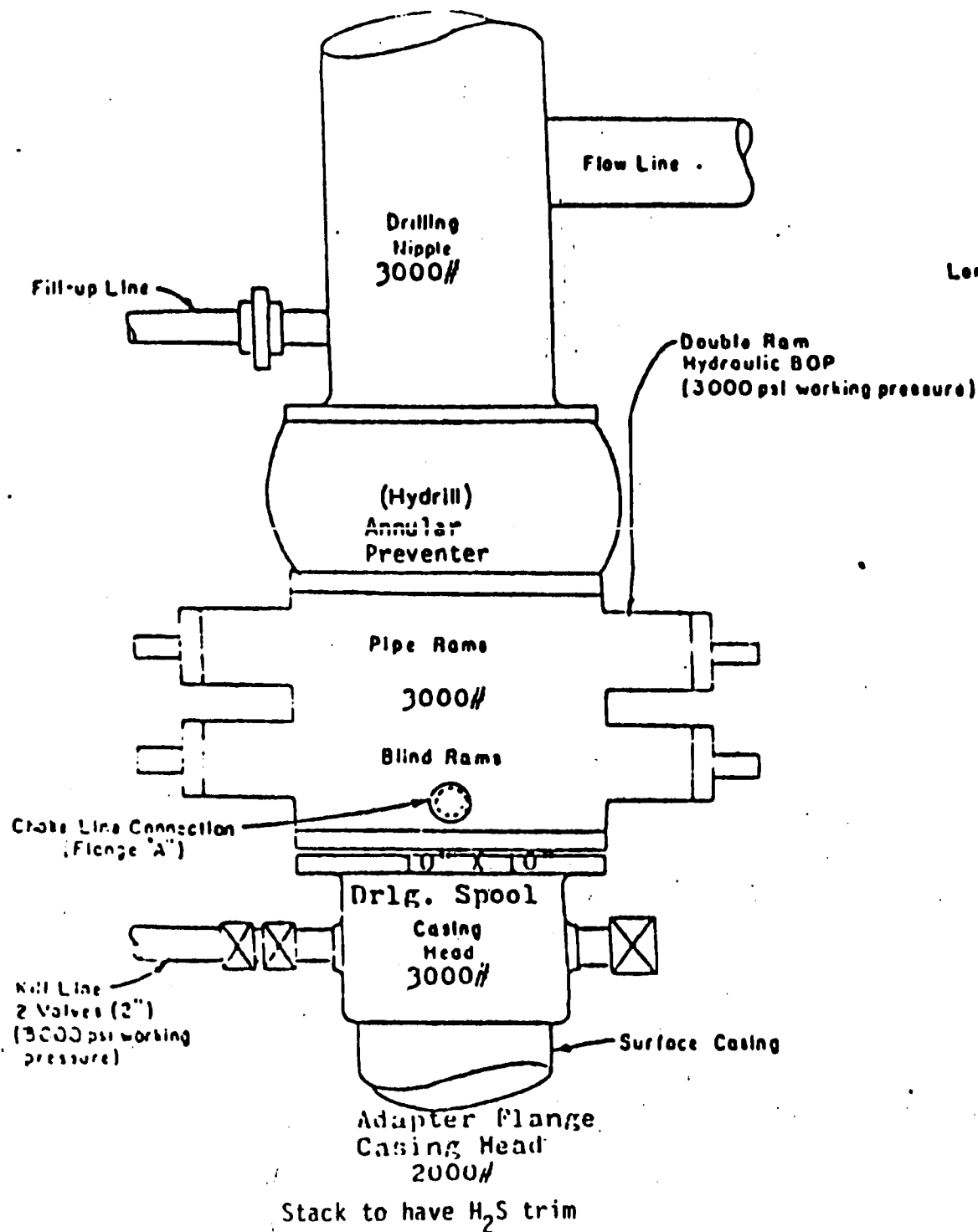
9. Any Anticipated Abnormal Pressures or Temperatures

Sub-normal pressures or temperatures have been noted or reported in wells drilled in the area at the depths anticipated in this well. Bottom hole pressure expected is 300 PSI  $\pm$ .

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date Duration of the Operations

The anticipated starting date is set for August 1, 1984, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 20 days after spudding the well to casing point.



PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331 C  
Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Section 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two directional reference stakes and elevations, also shown on EXHIBIT "A".
- B. The distance from Escalante, Utah, is 13 miles. Begin in Escalante and proceed 11.8 miles north on the Hells Back Bone Road to the junction with the Posy Lake Road. Thence, north on the Hells Back Bone Road approximately one mile. Thence, west on a lumber access road approximately 800' to the proposed location.
- C. All roads to location are color-coded on EXHIBITS "E" & "E1". No new access road will be required.
- D. This is an outpost exploration well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A
- F. The existing State Highway and Hells Back Bone Road need no improvement. Maintenance will be performed as required. The grade is 8% or less. A lumber access road of approximately 800' currently exists to the proposed location.

2. Planned Access Roads

Map showing all necessary access roads to be reconstructed is shown as EXHIBIT "E1" for the following:

## A. Drilling Operations

- (1) The maximum width of the 800 feet of reconstructed access required for drilling will be 15 feet.
- (2) The grade will be 8% or less.
- (3) No turnouts are planned.
- (4) No drainage design is planned during drilling operations. Brush will be cleared. No blading will be necessary.
- (5) No culverts are needed.
- (6) No surfacing material will be required.
- (7) No gates, fence cuts, or cattleguards will be installed.
- (8) This road does cross U.S.F.S. lands.

## B. Production

- (1) If production is obtained, reconstructed road will be graded and surfaced and drainage will be constructed. If accumulated material is not sufficient, additional materials will be provided by dirt contractor.

3. Location of Existing Wells

For all existing wells within a one-mile radius of outpost exploration well, see EXHIBIT "F".

- (1) There are no water wells within a one-mile radius of this location.
- (2) There are no abandoned wells in this one-mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this one-mile radius.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of location, the following existing facilities are owned or controlled by Mid-Continent Oil or other lessee/operator:
  - (1) Tank Batteries: None.
  - (2) Production Facilities: None
  - (3) Oil Gathering Lines: None
  - (4) Gas Gathering Lines: None
  - (5) Injection Lines: None
  - (6) Disposal Lines: None
- B. If production is obtained, new facilities will be as follows:
  - (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".
  - (2) All well flow lines will be built and maintained in accordance with U.S.F.S. requirements.
  - (3) Production facilities will be 245 feet long and 135 feet wide. Areas of drill pad not required for production facilities will be rehabilitated.
  - (4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
  - (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with U.S.F.S. stipulations.

5. Location and Type of Water Source

- A. The source of water will be obtained from municipal facilities in Escalante.
- B. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling well or constructing access roads into the location during drilling. The surface soil materials will be sufficient.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads for drilling are sufficient. If well is productive, and material from road and pad is not sufficient, surfacing materials will be provided by Lincoln Lyman Construction Company of Escalante, Utah.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters, or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of on-site for 30 days only, or 90 days with permission of District Engineer. After that time, application will be made for approval or permanent disposal method in compliance with NTL-2b.
- (4) Portable chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salt and other chemicals produced during drilling or testing will be handled in trash cage. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being buried or removed. Reserve pit will be fenced on three sides during drilling and fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Bulloch Brothers Engineering, Inc., Cedar City, Utah. Cuts and fills have been crafted to visualize the planned cut across the location spot and to the deepest part of the pad. Topsoil is 8" deep and will be stockpiled, as shown on EXHIBIT "G".
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, trash cage, pipe racks and mud tanks, access road, parking and turnaroud. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined.

10. Plans for Restoration

- (1) If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away to an approved sanitary landfill immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the U.S.F.S. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.

- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1985, unless requested otherwise.

#### 11. Other Information

- (1) The location lies in the Canyon Lands section of the Colorado Plateau Province.

The pad is located on approximately a five acre, flat, site on the crest of a ridge which separates Box Hollow from Death Hollow.

The area is a ponderosa pine belt with manzanita bush. Deer, elk, coyotes, cougars, small rodents and birds inhabit the area.

- (2) The primary surface use is for forestry and recreation. The surface is owned by the U.S. Government. U.S.F.S. ownership of access roads is shown on EXHIBIT "E". There is no private ownership of access roads.
- (3) The closest live water is Deep Creek, one quarter of a mile north of this location.

The closest occupied dwelling is located in Escalante, Utah, 18 miles southeast of the proposed site, as shown on EXHIBIT "E".

There were no archaeological, historical, or other cultural artifacts apparent to Bulloch's surveyors during their staking of this location. An Unusual Environmental Assessment was prepared by the Department of the Interior on August 29, 1980, for the area just to the north in Section 29, T32S-R3E where the #1 Charger was just completed. This should apply to the #3 Charger. See EXHIBIT "I".

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about August 1, 1984. It is anticipated that the casing point will be reached within 20 days after commencement of drilling.



12. Lessee's or Operator's Representative

Orlyn Terry  
Agent Consultant for  
Mid-Continent Oil & Gas  
Reserves, Inc.  
2460 West 26th Avenue  
Suite 470-C  
Denver, Colorado 80211  
(303) 573-6166

John D. Slawter, President  
Mid-Continent Oil & Gas  
Reserves, Inc.  
12700 Park Central Place  
Suite 1404  
Dallas, Texas 75251  
(214) 233-3380

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Mid-Continent Oil and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

6/15/84

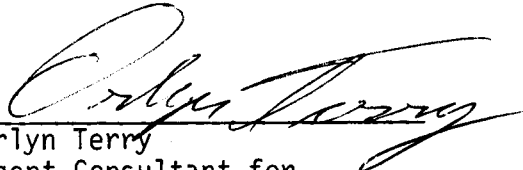
  
Orlyn Terry  
Agent Consultant for  
Mid-Continent Oil & Gas Reserves, Inc.

EXHIBIT "E"  
Access Roads to Location

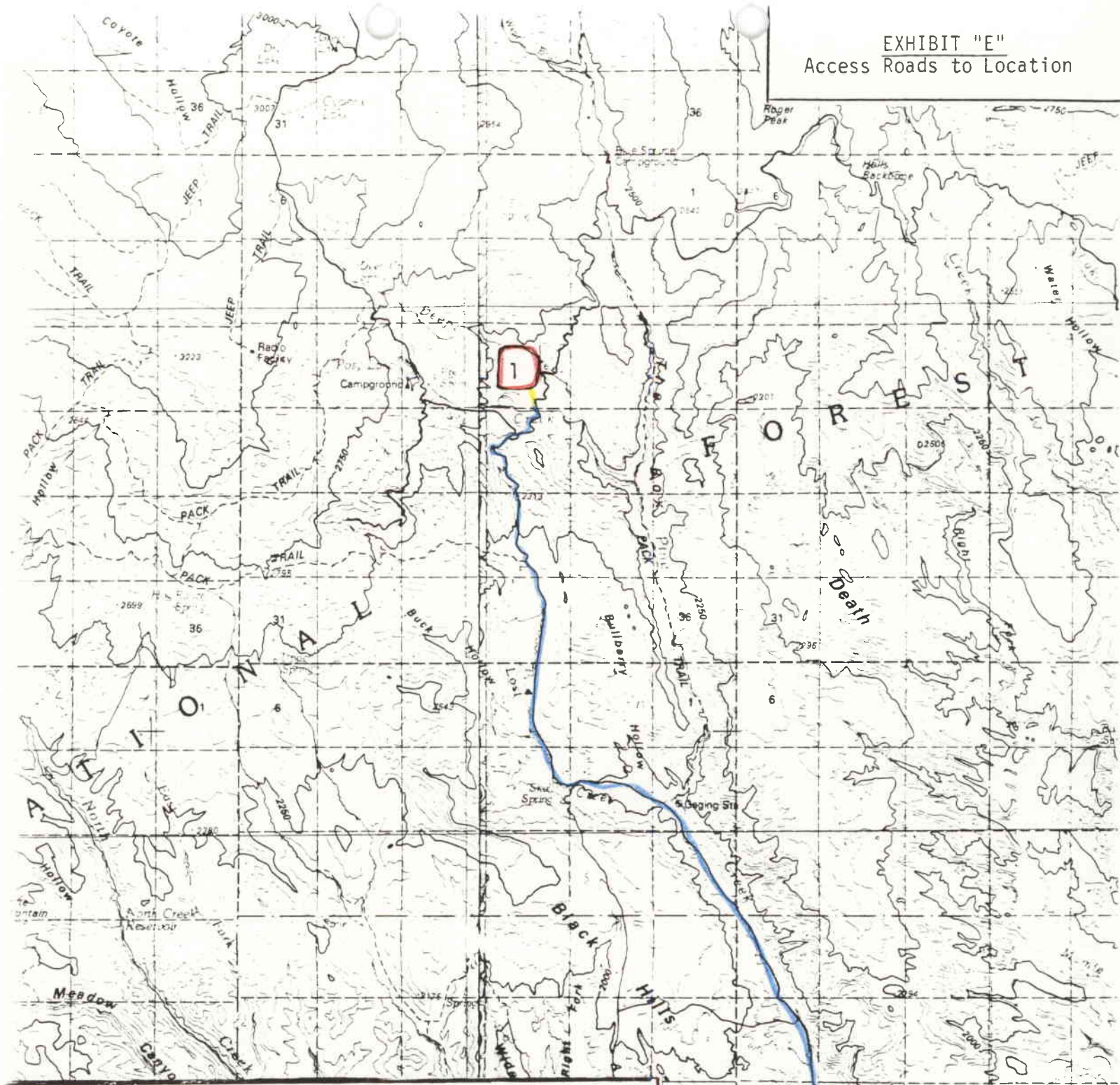


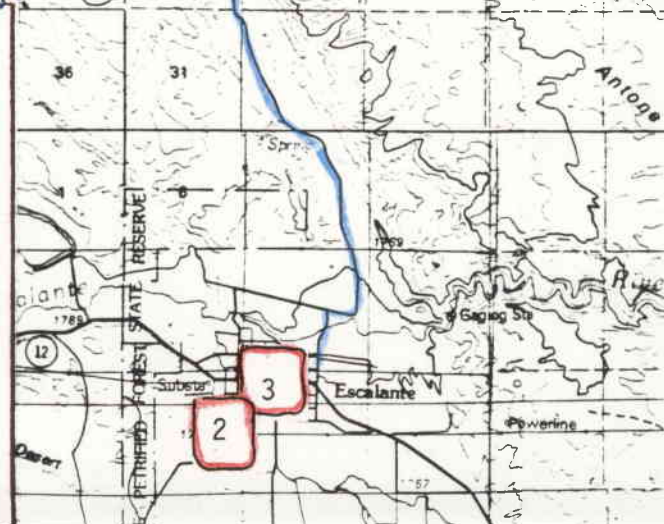


EXHIBIT "E" -- Access Roads to Location

LEGEND

- |   |  |
|---|--|
| 1. Location:<br>Mid-Continent Oil<br>#3 Charger<br>SW SE Sec.15,T33S-R2E<br>1249' FSL, 2011' FEL<br>Garfield County, Utah | <u>Color Coding</u>  |
|   |  Hells Back Bone Road |
|   |  Lumber Access Road   |
| 2. Water Source (Escalante Municipal Facilities)  |  |
| 3. Nearest Town and<br>Closest Dwelling   |  |





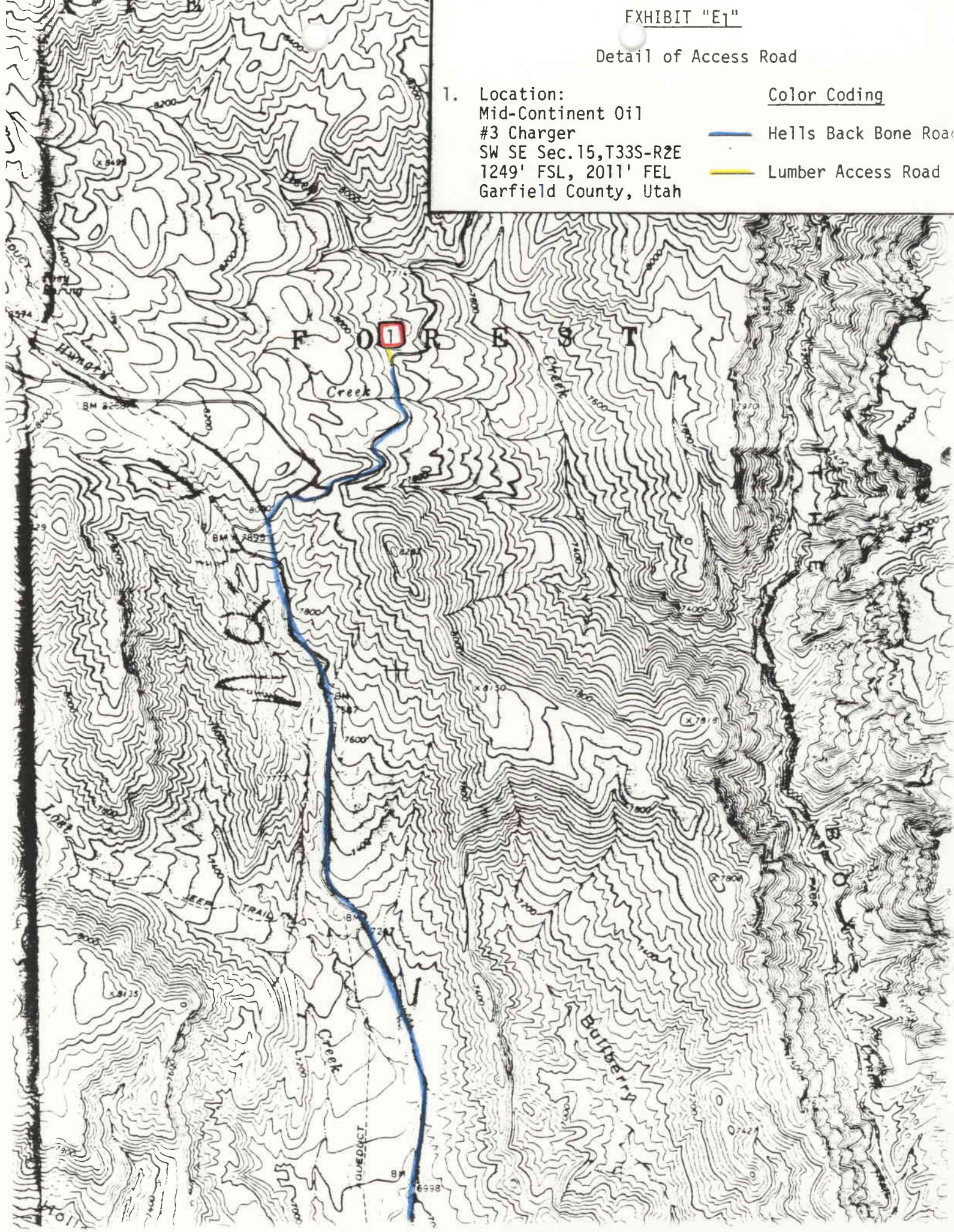


Detail of Access Road

- Location:  
Mid-Continent Oil  
#3 Charger  
SW SE Sec.15,T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

Color Coding

-  Hells Back Bone Road
-  Lumber Access Road

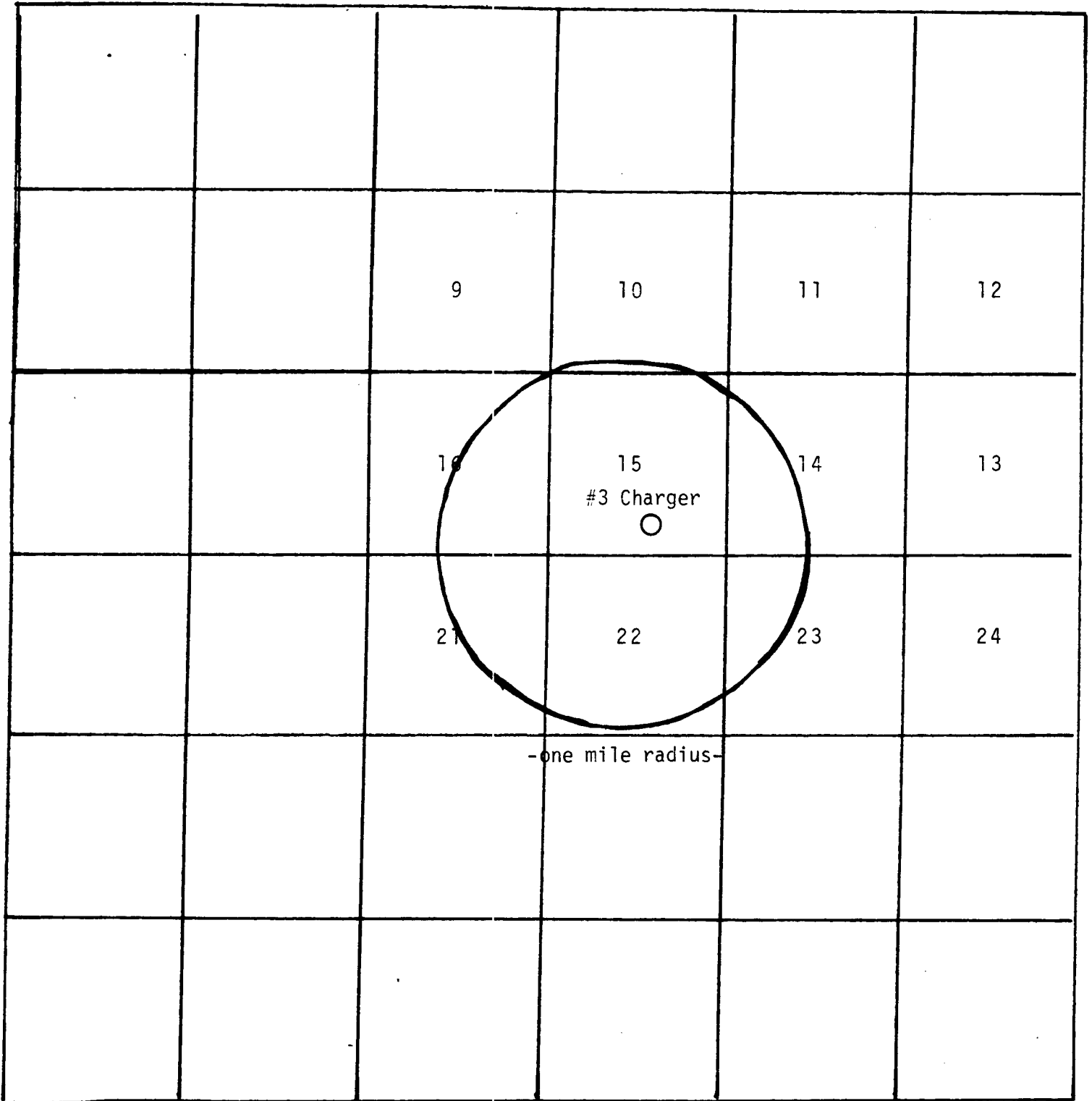




# EXHIBIT "F"

R 2 E

Radius Map of Area



## LEGEND

⊙ DRILLING

○ LOCATION

⊙ OIL & GAS WELL

⊙ DRY HOLE

⊙ ABANDONED OIL & GAS WELL

● OIL WELL

⊙ GAS WELL

⊙ ABANDONED OIL WELL

⊙ ABANDONED GAS WELL

△ TRIANGULATION POINT

⊙ WATER WELL

Mid-Continent Oil & Gas Reserves, Inc.

#3 Charger

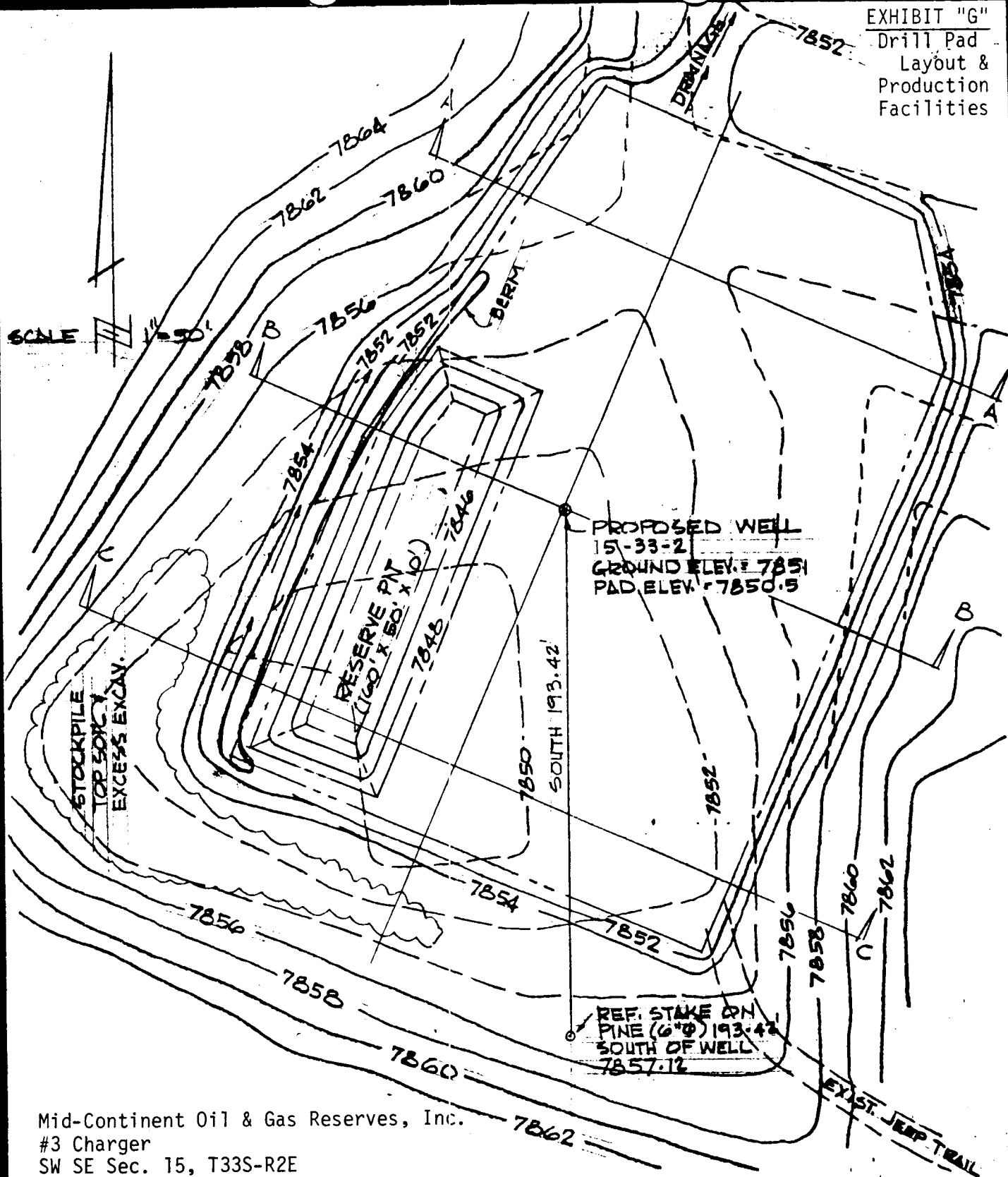
SW SE Sec.15, T33S-R2E

1249' FSL, 2011' FEL

Garfield County, Utah

# EXHIBIT "G"

Drill Pad  
Layout &  
Production  
Facilities



Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Sec. 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

**BULLOCH BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

DRILL PAD PLAN  
FOR  
15-33-2  
SECTION 15, T33S R2E  
S.L.M.

DATE 10/14/83  
SCALE 1"=50'  
DRAWN R.M.

SCALE 1" = 50' HORIZ

1" = 50' VERT

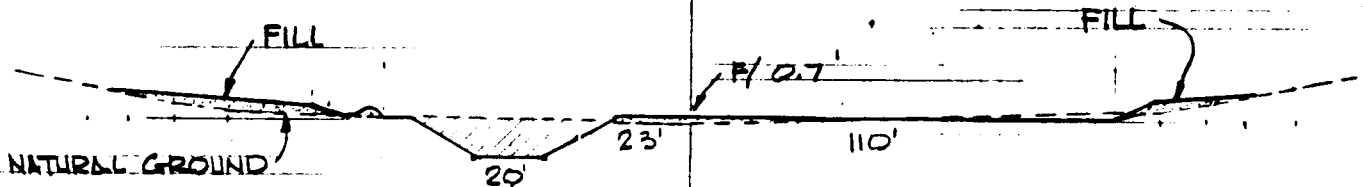
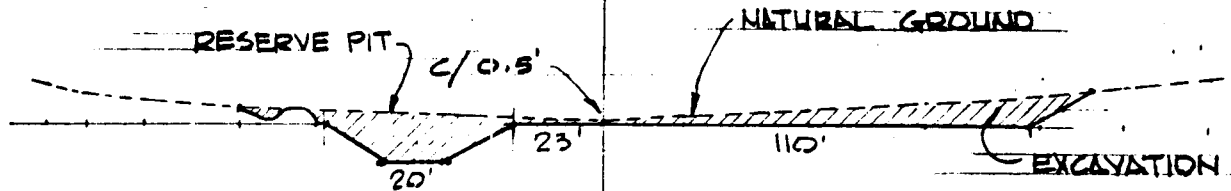
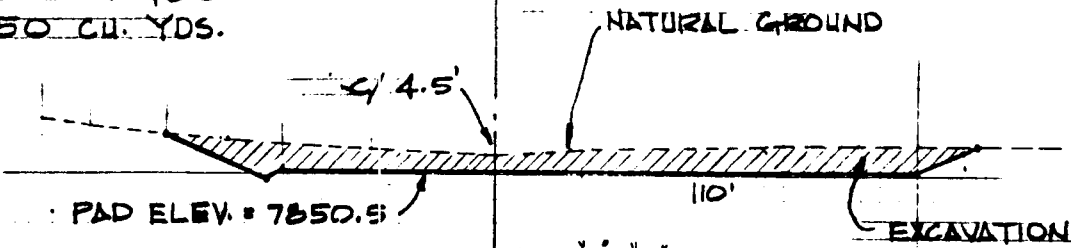
EXHIBIT "G1"  
Cut Fill Cross Sections

----- EXISTING GROUND

===== PROPOSED GROUND

CUT = 5850 CU. YDS.

FILL = 950 CU. YDS.



Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Sec. 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

**BULLOCH BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

DRILL PAD SECTIONS  
FOR  
15-33-2  
SECTION 15, T33S R2E  
S.L.M.

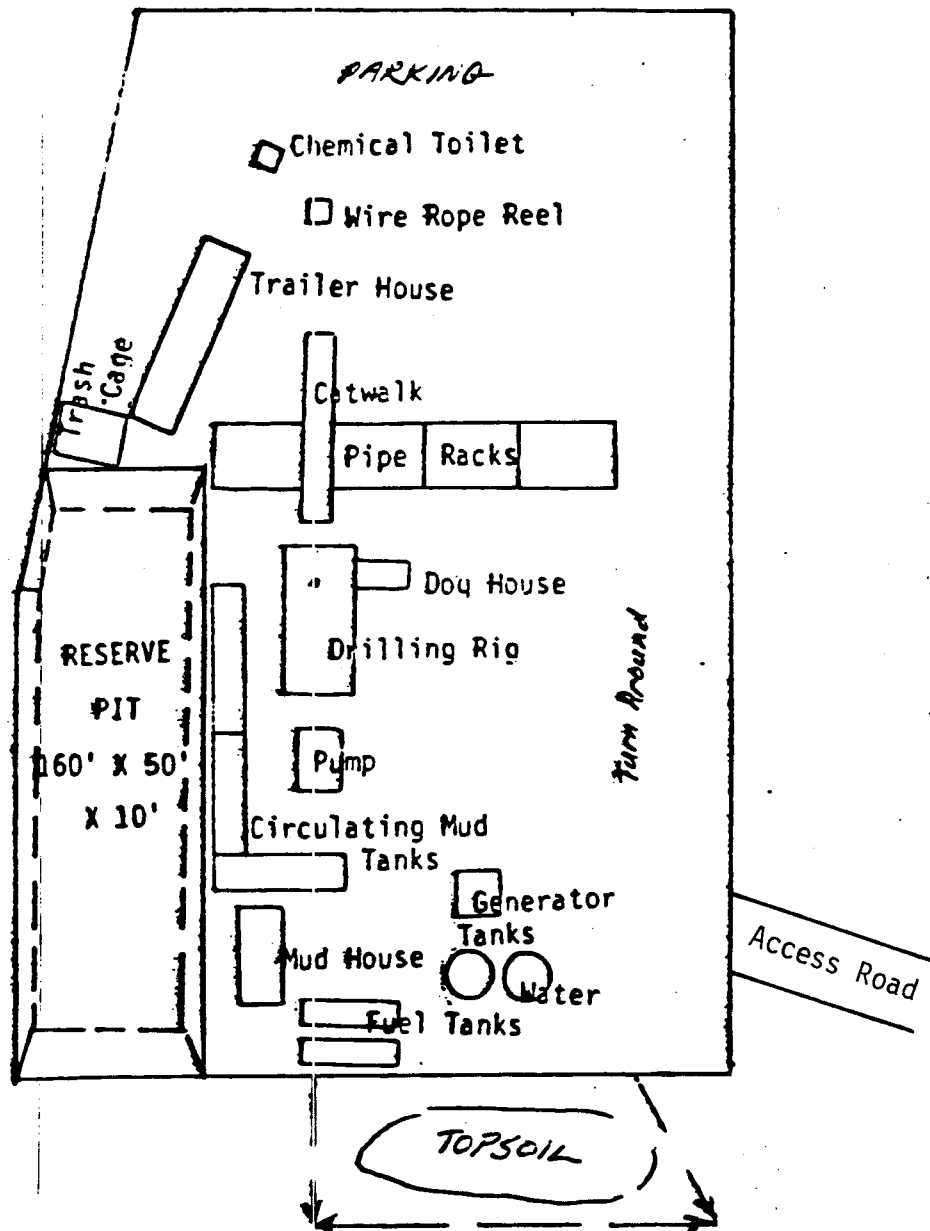
DATE DEC 14 1983  
SCALE 1" = 50'  
DRAWN R.M.

Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Sec. 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

EXHIBIT "H"

Drill Rig Layout

Scale 1" = 50'



Oil and Gas Drilling

EA No. 575-80

United States Department of the Interior  
Geological Survey  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date August 29, 1980

Operator ARCO Oil & Gas Co. Well No. Escalante #2  
Location 682' FSL, 2384' FWL Section 29 Township 32S Range 3E  
County Garfield State Utah Field/Unit Wildcat  
Lease No. U-38347 Permit No. \_\_\_\_\_

Prepared by: Glenn M. Doyle  
Environmental Scientist  
Grand Junction, Colorado

Joint Field Inspection Date: August 8, 1980

Field Inspection Participants, Titles, and Organizations:

<u>Glenn Doyle</u>	<u>U. S. Geological Survey</u>
<u>Millard Dumas</u>	<u>U. S. Forest Service</u>
<u>Lincoln Lyman</u>	<u>Dirt Contractor</u>
<u>Jack McCarthy</u>	<u>Operator</u>
_____	_____
_____	_____

Typing In: 8/29  
Out: 9/5

Related Environmental Documents:

USFS Natural Resources Input, Dixie National Forest.

*Admission Complete 2*  
*Per 120 x 180*  
*Per 141 x 40*  
*1 mi x 16' upgrade and road*  
*2 3/10 ac*  
*→ Cont 7 pgs 1-4*  
*Attachment 1 & 2 USFS*



DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location                      State:      Utah  
   County:    Garfield

682 ' F S L, 2384 ' F W L, SE  $\frac{1}{4}$  SW  $\frac{1}{4}$

Section 29, T32S, R3E, SLBM

2. Surface Ownership                      Location:      Public  
   Access Road:    Public

Status of Reclamation Agreements:    Not Applicable

3. Dates                      APD Filed:                      July 14, 1980  
   APD Technically Complete:      July 24, 1980  
   APD Administratively Complete:      *July 14, 1980*

4. Project Time Frame                      Starting Date:    September 1980  
   Duration of drilling activities:    21 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

None known

6. Nearby pending actions which may affect or be affected by the proposed action:

None known

7. Status of variance requests:

None known

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 120' wide x 180' long and a reserve pit 14' x 40' would be constructed on a previously constructed wellsite. Approximately one mile of existing road would be reconstructed to an average width of 18'. Culverts will be installed as specified by the Forest Service. Approximately 2.18 acres of disturbed surface would be associated with the project.

A workover rig will be used to drill out the existing cement plugs in the hole. ARCO plans to test for CO<sub>2</sub> gas.

2. Drilling to a depth of 3300'.

3. Waste disposal would be contained in a trash pit.
4. Traffic would be restricted to existing roads and the disturbed surface of the pad only.
5. Water requirements
6. Completion
7. Production

Details of the proposed action are described in the Application for Permit to Drill.

The access road would be designed as per USFS recommendations.

#### Environmental Considerations of the Proposed Action:

Regional Setting/Topography - The wellsite lies on an erosional slope at the base of cliffs which flank the Aquarius Plateau on the east. Regionally, steep topography surrounds the site, eventually grading into deeply-incised canyonlands-type relief.

#### PARAMETER

A. Geology - Surface is the Navajo Sandstone. Other formations are listed in the 10-Point Subsurface Plan.

Information Source: Application to Drill.

1. Other Local Mineral Resources to be Protected: None reported.

Information Source: ME, District Geologist.

2. Hazards:

a. Land Stability: Location and access built on Navajo Sandstone. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Field observation.

b. Subsidence: Subsidence <sup>could</sup> occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

c. Seismicity: Seismic risk: low. Statistically, greatest damage would be moderate, corresponding to intensity VII of Modified Mercalli Intensity Scale, 1931.

Information Source: Algermissen, S. T., and Perkins, David M., 1977, Earthquake hazards map of the United States, Reprint from Earthquake Information Bulletin, 9(1) Jan-Feb., 4 pp.;

Perkins, David M., 1974, Seismic risk maps, Reprint of Earthquake information bulletin, 6(6) Nov-Dec.; von Hake, Carl A., Earthquake History of Utah, NOAA.

- d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill.

## B. Soils

1. Soil Character: Soils are of a sandy-loam texture, probably well-drained and slightly alkalic, and support the subalpine-alpine pine and aspen communities.

Information Source: Field observation.

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done. Waterbarring of the roads, ditching of the sides, and the installation of culverts as per USFS specifications would minimize erosion and runoff.

Information Source: Field observation.

- C. Air Quality - Well site lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: State of Utah

- D. Noise Levels - Ambient noise levels will be temporarily increased over the duration of drilling activity. Wildlife will avoid immediate area. After well completion, if well is dry hole, noise levels will return to nearly the predrill ambient levels. If the well produces marketable quantities of oil or gas, noise levels will rise periodically above predrill ambient levels.

Information Source: Field observation.

## E. Water Resources

### 1. Hydrologic Character

- a. Surface Waters: No significant impacts to surface water systems are expected, provided the operator maintains all adverse substances either on the pad or in a fluid-tight reserve pit. Minor increases in sediment load, resulting in siltation/sedimentation, could occur in nearby intermittent drainages.

Information Source: Field observation.

- b. Groundwaters: The White Rim Sandstone, the Navajo, and the Wingate Formations may contain usable waters which should be sampled if encountered.

Information Source: ME, District Geologist.

2. Water Quality

a. Surface Waters: Impacts to surface water quality are judged as insignificant, provided the operator maintains a fluid-tight reserve pit.

Information Source: Field observation.

b. Groundwaters: Operator proposes 1076' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be unlined.

Information Source: Application to Drill and Field observation.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the field comments received from the USFS on August 8, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Construction would remove about 2.18 acres of vegetation increasing potential for non-point erosion and decreasing soil fertility.

Information Source: Field observation.

3. Fauna: Vegetation removal reduces wildlife habitats and food sources. Deer are not known to winter in the area. No known migratory bird nesting areas, strutting or breeding grounds, or fish-spawning areas would be impacted by proposed action.

Information Source: USFS

G. Land Uses

1. General: Timber cutting, recreation and minor grazing are the major land uses. The amount and the quality of land available to livestock, wildlife, and recreationists would be reduced. Timber access would be improved.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: N/A

Information Source: Field observation.

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

1. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Doyle, Environmental Scientist, USGS.

J. Cultural Resources Determination: Based on the field comments received from the USFS on August 8, 1980, we determine that there would be no effect on cultural resources subject to no stipulations.

Information Source: U. S. Forest Service

K. Adequacy of Restoration Plans: Rehabilitation plan meets the minimum NTL-6 requirements and must meet further USFS requirements.

Information Source: G. Doyle, Environmental Scientist, USGS.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.18 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems <sup>could</sup> occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

d. The potential for fires, leaks, spills of gas and oil or water exists.

e. During construction and drilling phases of the operation, noise and dust levels would increase.

f. Distractions from aesthetics during the lifetime of the project would exist.

g. Erosion from the site would eventually be carried as sediment in the Escalante River. The potential for pollution would exist through leaks and spills.

h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

i. Other: Wildlife and livestock could be endangered by toxic or hazardous fluids in the reserve pit if it is not properly fenced.

2. Conditional approval

a. All adverse impacts described in section one above would occur, except by fencing the reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off, hazards posed by fluids to livestock and wildlife would be mitigated.

*T & E  
Arch Clearance  
for the well  
from USF*

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached <sup>USFS</sup>~~BLM~~ Stipulations.
3. Fence reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off.
4. Sample any water shows from the Navajo, the Wingate, and the White Rim Formations.

Controversial Issues and Conservation Division Response: None at present.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

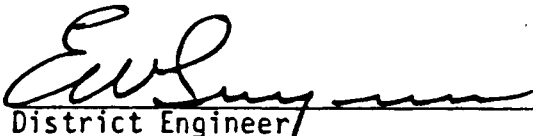
Determination

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).

*T&E & Arch. Clear forthcoming from USFS*

*Note 9/8/80*

*Rec'd 9/11/80*



District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil & Gas Operations  
Salt Lake City District

*9/17/80*  
Date

U- 38347  
Oil and Gas Lease

1. Lessee agrees not to enter upon the lease area or disturb the surface for exploration or drilling purposes until either:

- (a) An inventory of archeological, paleontological, and historical sites is made by the surface management agency or its designated representative, or
- (b) Lessee has made or caused to be made an inventory of all archeological, paleontological, and historical sites in those areas of the lease subject to development, occupancy, or surface disturbance. The survey must be made by a qualified archeologist acceptable to the surface management agency and the results of this survey provided to the surface management agency. Costs of this survey will be borne by the lessee. After inventory by either lessee's archeologist or the surface management agency, reasonable conditions of use will be prepared to protect the sites or salvage objects of antiquity in accordance with the Antiquities Act of June 8, 1906 (34 Stat. 225; 16 USC 431), and the Historical Sites Act of August 21, 1935 (49 Stat. 666; 16 USC 461-467). Costs of salvage of artifacts will be borne by the lessee and all objects of antiquity salvaged will remain the property of the U. S. Government.

- (a) Within 500 feet on either side of the centerline of any and all roads and/or highways within the lease area.
- (b) Within 200 feet on either side of the centerline of any and all designated trails within the lease area.
- (c) Within 500 feet of the normal high waterline of any and all streams, lakes, ponds, and reservoir located within the lease area.
- (d) Within 400 feet of any and all springs within the lease area.
- (e) Within 400 feet of any improvements either owned, permitted, leased, or otherwise authorized by the surface management agency.

7. y :

Lessee                     Arnold L. Blackbridge  
                                 Attorney-in-fact



57

Natural Resources Input

June 7, 1980

2820 Leases and Permits  
Arco-Escalante #2

Affected Environment

The present environment of the proposed project is one of a rehabilitated project that is stable for the most part. The prior drilling project consisted of an access road and drill pad. There has been some environmental degradation from plugged culverts and water running off the pad which head cut the road. However, the pad and access road have generally been revegetated and stabilized.

Effects of Implementation

Alternative "A" - No change

Same as "Affected Environment" section.

Alternative "B" - Allow access to existing pad location via the road up the Sand Creek drainage.

The vegetation and organic matter that has stabilized the existing facilities will be removed, thus setting plant succession back and rendering the site vulnerable to erosion. Wildlife sanctuary along this stream bottom will be interrupted for the project duration.

Improved drainage from project reconstruction will prevent some of the erosion that is now taking place.

Any time an area is opened up to a project and/or motor vehicle access, litter and foreign debris become an unsightly and sanitary problem.

Issues and Concerns

1. Destruction of existing vegetation within the road that has rehabilitated the disturbed site.
2. The removal of trees that have rehabilitated the existing drill pad.
3. Debris and litter that could be brought in by opening the area up.
4. Stability of facilities following completion of project.

Mitigating Requirements

1. The road will be bladed only where necessary to allow vehicles to travel safely; thus, leaving the existing vegetation and root crowns to rehabilitate the road. A draft hose will be used to transport water from the creek to the drill pad which will reduce vegetative damage due to excessive vehicular traffic.

2. The drill rig should be placed on the pad in a manner that will protect the larger ponderosa pine saplings that have inhabited the pad. Portable tanks will be used for water and mud storage to avoid excessive disturbance from pond construction.
3. All debris and litter brought into the area while the road is open will be the responsibility of ARCO.
4. Following completion of the drilling project the road and pad will be maintained, seeded, and closed to Forest Service standards.  
(Seed mixture: Crested wheat 5 lbs/ac, smooth brome 5 lbs/ac.  
and Russian wild rye 5 lbs/ac.)

  
MILLARD A. DUMAS III  
Supervisory Forester

### Affected Environment

The Arco-Escalante #2 drill site proposal is located approximately 1 1/2 miles up Sand Creek. The site was previously accessed and developed in the mid sixties when exploratory drilling was originally accomplished. An existing road extends from the Hells Backbone Road (F.S. #30153) to the existing pad location. The road has not been maintained for several years, but with the exception of several drainage problems, is in fair condition. The road traverses through a variety of soil types consisting mainly of sands and clays. Without surfacing, trafficability problems could be expected.

The Grimes Creek Timber Sale, which is scheduled to be sold in F.Y. 81, encompasses the area. The proposed road access to the pad location will be needed to harvest timber from the Sand Creek drainage when timber is harvested from the area.

Without the proposal the area will remain basically unchanged except for timber harvest activities. Washouts and plugged culverts would be corrected under the timber sale contract and erosion hazards would be lessened at that time.

### Effects of Implementation

Alternative "A" - No change.

Same as "Affected Environment" section.

Alternative "B" - Allow access to existing pad location via road up Sand Creek drainage.

Access to the existing pad site can be readily provided by placing additional culverts and dips at designated locations and doing minor reshape and finish work to the existing road. The road is approximately 14 feet wide, contains both outsloped and ditched sections, and varies gradewise between 0 and 10%. A thin shale type surfacing has been placed on select portions of the road and should be adequate for limited use.

The first live water crossing has washed out and will require the re-installation of a 24" culvert. The culvert existing at the washout appears to be in good condition and may be adequate for re-installation if it proved to be undamaged when its removed. The flow of the stream should be diverted back into its original channel and the roadbed reshaped to its original cross-section.

In two places, side drainages enter the roadway in through cut sections. The first of these areas should be dipped at the wash location, and ditched along the lower side of the road to the drainage just below the wash area.

Mr. Orlyn Terry  
2460 West 26th Avenue  
Suite 470-C  
Denver, Colorado 80211

RE: Filing NTL-6 and A.P.D. Form 9-331C  
Mid-Continent Oil & Gas Reserves, Inc.  
#3 Charger  
SW SE Sec. 15, T33S-R2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

Dear Mr. Terry:

This is to confirm our understanding with you that Orlyn Terry is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to locations, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

TERRY'S responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

Mid-Continent Oil & Gas Reserves, Inc.  
Company

By: 

John D. Slawter, President

Date: 6/15/84

OPERATOR Mid-Continent Oil & Gas DATE 7/3/84  
WELL NAME Charger #3  
SEC SWSE 15 T 33S R 2E COUNTY Garfield

43-017-30123  
API NUMBER

Prod.  
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/> INDEX	<input type="checkbox"/> HL	<input type="checkbox"/>
<input type="checkbox"/> NID	<input type="checkbox"/> PI	<input type="checkbox"/>
<input type="checkbox"/> MAP	<input type="checkbox"/>	<input type="checkbox"/>

PROCESSING COMMENTS:

No other wells within 1000'  
Need water permit  
Need exception <sup>location</sup> request

APPROVAL LETTER:

SPACING: ☐ A-3 \_\_\_\_\_ UNIT ☐ c-3-a \_\_\_\_\_ CAUSE NO. & DATE  
☐ c-3-b ☒ c-3-c

SPECIAL LANGUAGE:

1- Water  
2- Exception <sup>location</sup> request -

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER \_\_\_\_\_

☐ UNIT \_\_\_\_\_

☐ c-3-b

☒ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 3, 1984

Mid-Continent Oil & Gas Reserves, Inc.  
12700 Park Central Place, Suite 1404  
Dallas, Texas 75251

RE: Well No. Charger #3  
SWSE Sec. 15, T. 33S, R. 2E  
1249' FSL, 2011' FEL  
Garfield County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 660 feet of the proposed location.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Mid-Continent Oil & Gas Reserves, Inc.  
Well No. Charger #3  
July 3, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-017-30123.

Sincerely,

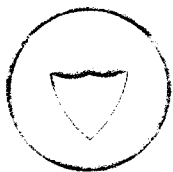
  
R. J. Firth  
Associate Director, Oil & Gas

RJF/as

cc: Branch of Fluid Minerals

Enclosures





ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

July 6, 1984

RECEIVED

JUL 11 1984

DIVISION OF OIL  
GAS & MINING

Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Attention: Arlene

Dear Arlene:

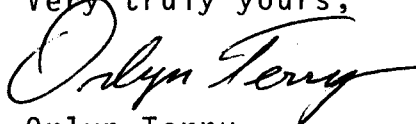
Re: Mid-Continent Oil & Gas  
Reserves, Inc.  
#3 Charger  
SW SE Sec. 15, T33S-R2E  
Garfield County, Utah

Pursuant to our telephone conversation, I wish to advise you that the proposed location is dictated by topographic considerations and is not within the limits of the legal divisions ordinarily accepted by the Bureau of Land Management requirements. The Forest Service and the BLM have agreed to the location, and the people shown on the attached letter participated in an onsite inspection approving this location.

As I explained on the telephone, I have discussed the water problem with both Dorothy Bolton, Division of Water Rights, Salt Lake City, and with Gerald Stoker, in Cedar City; and it was decided that in order to avoid internal conflicts, the water for both the #3 Charger and the #4 Charger was to be obtained from the Escalante Municipal system with Lincoln Lyman as contractor. As a result of my various conversations with Bolton, Stoker and Lyman, I wrote the attached letter to the BLM, dated May 10, 1984, with copies as shown.

If you need further documentation of the water rights, please contact Lincoln Lyman directly, in Escalante, or the Mayor of Escalante, with whom Lincoln Lyman discussed the proposal.

Very truly yours,

  
Orlyn Terry

OT:cr  
Enclosures  
cc: Mid-Continent

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Mid-Continent Oil &amp; Gas Reserves, Inc.

## 3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

SW SE Sec. 15, T33S-R2E; 1249' FSL, 2011' FEL

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

13 miles north of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

2011' FEL

## 16. NO. OF ACRES IN LEASE

1,920

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

7,000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7851' GR

## 22. APPROX. DATE WORK WILL START\*

August 1, 1984

## 23. PROPOSED CASING AND CEMENTING PROGRAM

RECEIVED

AUG 2 1984

DIVISION OF OIL  
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

John D. Stawter

TITLE

President

DATE

6/15/84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

M. S. Jensen

TITLE

District Manager

DATE

27 July 84

CONDITIONS OF APPROVAL, IF ANY

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL  
ATTACHED TO OPERATORS  
COPYFLAIRING OR VENTING  
OF GAS IS SUBJECT TO  
NTL4-A DATED 1/1/80

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Mid-Continent Oil and Gas Reserves, Inc. Well No. #3 Charger

Location 1249' FSL, 2011' FEL Sec. 15, T33S, R2E Lease No. 29837

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not be completed at that time, a followup report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternation of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cutting, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contract with this office is: Quay M. Simons  
Office Phone: (801) 826-4291 Home Phone: (801) 826-4638  
City: Escalante, State: Utah

District Manager's Office Address and contacts are:

Address: 1579 North Main, Cedar City, Utah 84720  
District Manager: (801) 586-2401 Home Phone: \_\_\_\_\_

## 7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ ,  $\frac{1}{4}$  Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

13.


SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

- 1) All timber removed, on or near the well site, will be designated by a Forest Officer.
- 2) The access road (F.S. Road #30806) to the well site will be built to Forest Service standards and alignment, as shown in the Hungry Creek Timber Sale road specifications.
- 3) During drilling operations an open roadway will be maintained to facilitate logging operations.
- 4) Exhaust lines will be located to protect live trees.
- 5) Blading and/or drainage will be maintained on the road as per Forest Service specifications.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 19, 1985

Bureau of Land Management  
Branch of Fluid Minerals  
P O Box 970  
Moab, Utah 84532

Attention: Ms. Carol Fruediger

Dear Carol:

Re: Well No. Charger #3 - Sec. 15, T 33S, R 2E  
Garfield County, Utah - U29837  
Operator of Record: Mid-Continent Oil & Gas Reserves, Inc.

The above referenced well in your district was given federal approval to drill July 3, 1984. This office has not received notification of any activity on this location.

Please let me know what action, if any, the Bureau of Land Management is taking on this well.

Thank you for your help in keeping our records up to date.

Sincerely,

Tami Alexander  
Well Records Specialist

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

320S/2



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Cedar City District Office  
1579 North Main, P.O. Box 724  
Cedar City, Utah 84720  
(801) 586-2401

IN REPLY REFER TO

3160  
U-29837  
API 43-017-30123  
U-042

January 6, 1986

**RECEIVED**

**JAN 10 1986**

**DIVISION OF OIL  
GAS & MINING**

State of Utah  
Natural Resources, Division of Oil,  
Gas and Mining  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Status of Well #3 Charger (API 43-017-30123)

Recently your office requested information on the status of Well #3 Charger (API 43-017-30123), located in T. 33 S., R. 2 E., SWSE Sec. 15.

This well was approved on July 27, 1984 for a period of one year. Since no attempt was made to drill the well during the period, the permit to drill expired on July 27, 1985.

If you need additional information concerning this well, please contact Paul Carter at 801-586-2401.

Sincerely,

*M. Jensen*  
District Manager

cc: Escalante Resource Area

U-922

Mid-Continent Oil Co.  
12700 Park Central Place  
Suite 1404  
Dallas, Texas 75251





STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 22, 1986

Mid-Continent Oil & Gas Reserves, Inc.  
12700 Park Central Place, Suite 1404  
Dallas, Texas 75251

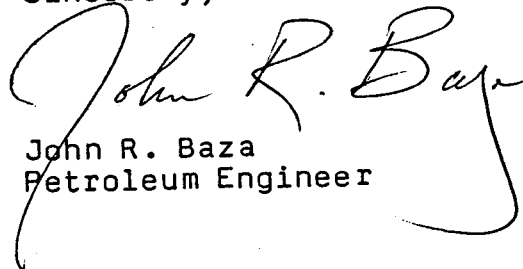
Gentlemen:

Re: Well No. Charger #3 - Sec. 15, T. 33S, R. 2E  
Garfield County, Utah - AFI #43-017-30123

In concert with action taken by the Bureau of Land Management, January 6, 1986, approval to drill the above referenced well is hereby rescinded.

A new "Application for Permit to Drill" must be filed with this office, for approval, prior to future drilling of the subject location.

Sincerely,



John R. Baza  
Petroleum Engineer

ts

cc: Dianne R. Nielson  
Ronald J. Firth  
File

0320/72

**Memorandum**DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Moab District

IN REPLY REFER TO:

3162  
(U-065)

TO : District Manager, Cedar City

Date: JAN 24 1986

FROM : District Manager, Moab

SUBJECT: Well Status Reports

I am forwarding the following well status requests to your office from the State of Utah, Division of Oil, Gas and Mining. If you have any questions please contact the Branch of Fluid Minerals at (801) 259-6111.

/S/ GENE NODINE

RECEIVED

Enclosures (1)  
Well Status Inquiries

JAN 27 1986

cc: State of Utah, DOGM ✓

DIVISION OF OIL  
GAS & MINING

CFreudiger:vb:1/23/86HAG-14861